

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claim 1 (currently amended): A device, comprising:

a snap-action thermal switch having a pair of ~~mutually electrically isolated electrical~~ contacts structured in a normally open configuration by a thermal actuator; and

a resistance element integral with the snap-action thermal switch and electrically coupled to an output the thermal switch generated on the pair of contacts, the resistance element being physically spaced away from the thermal actuator and thermally isolated therefrom.

Claim 2 (previously presented): The device of claim 1 wherein the resistance element and the snap-action thermal switch share a single pair of common terminals.

Claim 3 (currently amended): The device of claim 1 wherein the snap-action thermal switch is structured having a pair of terminals with a first one of the pair being coupled to a first of the contacts and a second one of the pair being coupled to a second one of the contacts such that the first and second contacts are mutually electrically isolated when the snap-action thermal switch structured in the normally open configuration; and

the integral resistance element is electrically coupled to provide an output on the pair of ~~electrically isolated~~ terminals.

Claim 4 (currently amended): The device of claim 3 wherein the pair of ~~mutually electrically isolated~~ terminals are shorted together when the device senses an ambient temperature higher than a predetermined set point of the snap-action thermal switch and the pair of shorted terminals are opened when the device senses an ambient temperature lower than the predetermined set point.

Claim 5 (original): The device of claim 3 wherein the integral resistance element is mounted on an interior surface of the snap-action thermal switch.

Claim 6 (original): The device of claim 3 wherein the integral resistance element is mounted on an exterior surface of the snap-action thermal switch.

Claim 7 (currently amended): A thermal sensor, comprising:

a single-pole, single-throw switch having first and second electrical contacts, the first contact being movable relative to the second contact;

an actuator positioned relative to the first electrical contact and responsive to a sensed ambient temperature for spacing the first movable contact away from the second contact; and

an electrical resistor electrically coupled between the first and second contacts and spaced away from the actuator and thermally isolated therefrom.

Claim 8 (original): The thermal sensor of claim 7 wherein the actuator further comprises a bimetallic actuator having first and second physical states, the first state being structured to space the first movable contact away from the second contact, and the second state being structured to permit the first movable contact to contact the second contact.

Claim 9 (previously presented): The thermal sensor of claim 7 wherein the first and second electrical contacts are further coupled to respective first and second electrically conductive terminals with the electrical resistor being electrically coupled therebetween.

Claim 10 (original): The thermal sensor of claim 9 wherein the electrical resistor is integral with the single-pole, single-throw switch.

Claim 11 (previously presented): The thermal sensor of claim 10 wherein the single-pole, single-throw switch further comprises:

a header having the first and second terminals mounted therein; and

wherein the first and second electrical contacts are spaced away from the header by the respective first and second terminals.

Claim 12 (previously presented): The thermal sensor of claim 11 wherein the electrical resistor is mounted on a surface of the header.

Claim 13 (previously presented): The thermal sensor of claim 12, further comprising a means for spacing the actuator away from the header.

Claims 14-19 (cancelled)

Claim 20 (currently amended): A three-terminal snap-action thermal switch, comprising:

first, second and third electrical terminals mounted in a header, the first, second and third terminal being mutually spaced apart and ~~mutually electrically isolated and being electrically~~ isolated from the header;

a fixed electrical contact being positioned on the first terminal;

a movable electrical contact being positioned on the second terminal and being biased into electrical contact with the fixed electrical contact;

a thermally-responsive bimetallic actuator being convertible as a function of sensed ambient temperature between a first state wherein an actuation portion is positioned to space the movable electrical contact away from the fixed electrical contact and a second state wherein the actuation portion is positioned to permit electrical contact between the movable electrical contact and the fixed electrical contact; and

~~an~~ a substantially thermally-independent electrically resistive element spaced away from the actuator and thermally decoupled therefrom, the electrically resistive element being electrically coupled between the third electrical terminal and one of the first and second electrical terminals.

Claim 21 (original): The switch of claim 20, further comprising a housing coupled to the header and cooperating with the header to encase the fixed and movable contacts.

Claim 22 (original): The switch of claim 21 wherein the electrically resistive element is encased within the cooperating housing and header.

Claim 23 (original): The switch of claim 21 wherein the electrically resistive element is external to the cooperating housing and header.

Claim 24-27 (cancelled)